

**Device and Method for Hiding Information  
and Device and Method for Extracting Information**

Abstract

A device [(10)] for hiding information in a text comprises means [(12)] for providing the text, means [(18)] for linguistically analyzing the text to produce text components, means [(20)] for determining a plurality of formulation alternatives for the text by varying the order of the text components and optionally in addition by using synonyms for said text components; every formulation alternative is grammatically correct for the text and has essentially the same meaning as the text. Certain partial information is allocated to every sequence and/or to every synonym or to every paraphrase. The device further comprises means [(22)] for selecting a formulation alternative from the plurality of formulation alternatives in such a manner that the partial information that is allocated to the selected formulation corresponds to the information to be hidden, and means [(24)] for outputting the formulation alternative that forms a modified text, said modified text containing information to be hidden. A device for extracting breaks the modified text down into its text components and uses the partial information allocated to said text components to extract the hidden information. Information to be hidden can thus be flexibly and inconspicuously, as well as in large amounts, introduced into any text.

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